

CLAIMS

1. Timepiece including a case (1) formed of a back cover (3) and a middle part (2) closed by a glass (4) arranged above a dial (5) with an analogue or digital display, delimiting the housing of a watch movement (6), said glass (4) being
5 surrounded by two external rotating top (10) and bottom (20) bezels, superposed on a shoulder (8) of the middle part (2), characterised in that the two bezels (10, 20) and the shoulder (8) have identical or similar non-circular or non-symmetrical contours in relation to the centre of the dial (5) in the superposed position, and in that the bezels (10, 20) can occupy a first rest position in which concealed parts (9) of the shoulder
10 (8) and/or concealed parts (23) of the bottom bezel (20) are made visible after rotation of at least one bezel (10, 20).
2. Timepiece according to claim 1, characterised in that the top bezel (10) totally covers the bottom bezel (20) which itself totally covers the shoulder (8).
3. Timepiece according to claim 2, characterised in that the bottom bezel
15 (20) is provided with a lateral manoeuvring knurling (28).
4. Timepiece according to claim 1, characterised in that the bottom bezel (20) includes a strip (21) extending beyond the contour of the top bezel (10).
5. Timepiece according to claim 1, characterised in that the concealed parts (9) of the shoulder (8) of the middle part (2) include an extension (29) extending
20 beyond the contour of the bottom bezel (20).
6. Timepiece according to claim 1, characterised in that the two rotating bezels (10, 20) have a symmetrical oblong contour in relation to the 12 o'clock – 6 o'clock and 3 o'clock – 9 o'clock directions in the rest position.
7. Timepiece according to claim 6, characterised in that the two rotating
25 bezels (10, 20) have a curved contour.
8. Timepiece according to claim 1, characterised in that the two rotating bezels (10, 20) have a circular contour with a centre that is offset with respect to the centre of the dial (5).
9. Timepiece according to claim 1, characterised in that the bottom bezel
30 (20) includes on its inner lateral wall a stop member (24) cooperating with a circular hollow cam (14) formed in the external lateral wall of the top bezel (10).
10. Timepiece according to claim 9, characterised in that the cam (14) of the top bezel (10) is formed by an arc of a circle with an aperture α allowing free rotation of the top bezel (10) without driving the bottom bezel (20).

11. Timepiece according to claim 9, characterised in that the bottom bezel (20) includes at its base a stop member (25) cooperating with a circular hollow cam (15) formed in the shoulder (8) of the middle part (2).

12. Timepiece according to claim 11, characterised in that the cam (15) of the shoulder (8) is formed by an arc of a circle with an aperture β for limiting the rotation of the bottom bezel (20) when it is driven in rotation by the top bezel (10).

13. Timepiece according to claims 10 and 12, characterised in that $\alpha = 90^\circ$ and $\beta = 45^\circ$.

14. Timepiece according to claims 11 and 13, characterised in that $\alpha = \beta = 60^\circ$ allowing an angular shift of 120° between the shoulder (8), the bottom bezel (20) and the top bezel (10).

15. Timepiece according to claim 1, characterised in that the foot (13) of the top bezel (10) includes on a part of its inner periphery a toothed sector (16) meshing with a toothed wheel (18) of the movement (6) and which is started by activating an external control member (7) or by a control signal programmed in the movement (6).

16. Timepiece according to claim 1, characterised in that the rotation of the bezels (10, 20) controls the ON/OFF switch of a time function such as an alarm time.

17. Timepiece according to claim 1, characterised in that the concealed parts (9, 23) in the rest position carry decoration or jewellery elements.